

Serial No. 09/260,478

Amendment A

Page 2

Page 16, line 3, change "know" to - - known - - ;  
change "rising the current" to - - rising current - - .

Page 19, line 13, change "is depicted" to - - depicts - - ;  
line 24, change "in Figure 15 is presented" to  
- - Figure 15 presents - - .

In the Claims:

Claim 1, amend as indicated:

1. (amended) An AC-DC converter comprising of:

- a) a low impedance AC source providing an alternation of a positive voltage, a negative voltage and a dead time;
- b) an inductive element connected in series with said AC source;
- c) a bridge [of] having a first, a second, a third, and a fourth rectifier[s means] , said bridge having a first input terminal, a second input terminal, a first output terminal, and a second output terminal, said first input terminal communicating with said inductive element; wherein,

the first rectifier [means being] connected between the first input terminal and the first output terminal [with the cathode to the first output terminal] a cathode of the first rectifier connected to said first output terminal ,

the second rectifier [means being] connected between the second input terminal and the first output terminal, [with the cathode to the first output terminal] a cathode of the second rectifier connected to the first output terminal ,

the third rectifier [means being] connected between the second input terminal and the second output terminal [with the cathode to the second input terminal], a cathode of the third rectifier connected to the second input terminal,

the fourth rectifier [means being] connected between the first

22 input terminal and the second output terminal [with the cathode to the  
23 first input terminal], a cathode of the fourth rectifier connected to  
24 the first input terminal,  
25 wherein [the] said AC voltage source is connected to [in series with]  
26 said inductive element [is connected between the first input terminal] and the  
27 second input terminal;  
28 d) a capacitor [in parallel with a load is] connected between the first  
29 output terminal and the second output terminal;  
30 e) a load connected between the first output terminal and the second  
31 output terminal; and,  
32 wherein, the said voltage source [modulating] modulates the energy  
33 transfer through said inductor element and said first, second, third and  
34 fourth rectifiers [to said capacitors] and said load by changing the ratio  
35 between the duration of said positive and negative alternation and the  
36 repetition period of the signal provided by said voltage source.

Claim 2, amend as indicated:

1 2. (amended) The converter of claim 1, wherein said [the] third  
2 rectifier [means] and said [the] fourth rectifier [means] are [replaced by]  
3 controlled synchronous rectifiers.

Claim 3, amend as indicated:

1 3. (amended) The converter of claim 1, wherein [all the said rectifiers  
2 means] said first rectifier, said second rectifier, said third rectifier, and  
3 said fourth rectifier are [replaced by] controlled synchronous rectifiers.

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~~Claim 6, amend as indicated:~~

1           6. (amended) The converter of claim 1, wherein [the] said voltage  
2           source changes its polarity after the current through said inductive element  
3           reaches zero and [delayed] until the voltage across the first, second, third,  
4           and fourth rectifiers [which will conduct on the next cycle] reaches zero  
5           voltage.

Claim 7, amend as indicated:

1           7. (amended) The converter of claim 1, further including [wherein an  
2           additional] a [by] bi-directional switch [is] connected between said first  
3           input terminal and second input terminal, said bi-directional switch being  
4           response to [turned ON and OFF by] a control voltage synchronized with said AC  
5           voltage source [and modulating the power transferred to said load by  
6           modulating the conduction time].

REMARKS

Claims 1-7 were pending before the examiner. The examiner has rejected all of the claims.

The specification has been reviewed for typographical and grammatical errors. All such errors found have been corrected.

The examiner has objected to the abstract under MPEP 608.01; the examiner identifies a misspelling in line 5.

By this amendment, the error noted by the examiner has been corrected.